



Nematodes from terrestrial and freshwater habitats in the Arctic

Oleksandr Holovachov †

† Swedish Museum of Natural History, Department of Zoology, Stockholm, Sweden

Corresponding author: Oleksandr Holovachov (oleksandr.holovachov@nrm.se)

Academic editor: Vlada Peneva

Received: 04 Jul 2014 | Accepted: 14 Aug 2014 | Published: 19 Aug 2014

Citation: Holovachov O (2014) Nematodes from terrestrial and freshwater habitats in the Arctic. Biodiversity Data Journal 2: e1165. doi: [10.3897/BDJ.2.e1165](https://doi.org/10.3897/BDJ.2.e1165)

Abstract

We present an updated list of terrestrial and freshwater nematodes from all regions of the Arctic, for which records of properly identified nematode species are available: Svalbard, Jan Mayen, Iceland, Greenland, Nunavut, Northwest territories, Alaska, Lena River estuary, Taymyr and Severnaya Zemlya and Novaya Zemlya. The list includes 391 species belonging to 146 genera, 54 families and 10 orders of the phylum Nematoda.

Keywords

Alaska, Arctic, distribution, fauna, freshwater, Greenland, Iceland, Jan Mayen, Lena River, Northwest territories, Novaya Zemlya, Nunavut, Severnaya Zemlya, Svalbard, Taymyr, terrestrial.

Introduction

Nematodes are one of the most numerous and abundant multicellular organisms on the planet in general and in the Arctic in particular. There are over 70 research papers published which include data on the fauna and distribution of nematodes in the region. Few faunistic overviews of the Arctic nematodes exist in the literature. The "Catalogue of free-

living soil and fresh-water nematodes of Arctic and Subarctic" (Kuzmin and Gagarin 1990) includes a large number of subarctic nematodes and is normally inaccessible. Subsequent publication by Gagarin (2001b) focuses only on the fresh-water nematodes from the Russian Arctic and Subarctic, while Coulson and Refseth (2004) give a list of terrestrial and freshwater nematodes from Svalbard and Jan Mayen. The present paper aims to provide a comprehensive overview of all findings of nematodes in the entire Arctic region between the years of 1883 and 2013, with all species names adjusted according to the most recent classification and nomenclature.

Materials and methods

The species list has been compiled based on literature data and refers to the area of the Arctic (Fig. 1) as defined by the Circumpolar Arctic Vegetation Map (CAVM Team 2003) and Meltofte et al. (2013). The list below includes all species found in the Arctic, and specifies the regions where each species was found, as well as all relevant references. Current taxonomic status and systematic position of all species was updated according to the most recent views on nematode systematics. Section on nomenclature includes those synonymous names, and sometimes mistyped names, which were used in the original publications on the Arctic nematodes; it does not include any other existing synonyms or combinations. Asterisks indicate those new species names, which were originally proposed based on populations described from the Arctic.



Figure 1.

Known localities in the Arctic for which detailed information about nematode fauna (identified to species level) is available in the literature.

Taxa identified in the literature to the genus level only were not considered in the review for the following reasons: 1) It is impossible to make sure how many actual species were considered by the author – just one, or if s/he had treated multiple species together in the same unit. 2) Taxa identified only to the genus level have limited usefulness when

analyzing distribution, endemism and other aspects of biogeography. Nematode systematics is continuously improving. Menzel (1920) described *Dorylaimus* sp. from Spitzbergen (Svalbard). The context of the genus *Dorylaimus* had changed considerably since 1920 and now includes members of at least families Dorylaimidae, Qudsianematidae, Aporcelaimidae and Nordiidae, making it practically impossible to use Menzel's record in modern faunistic studies. Even genus-level identifications done more recently face similar problems. Species that are now considered to belong to the same genus may in future, when more data becomes available, be split into different, sometimes distantly related genera. It would thus be impossible to know in the future what author of the paper meant when he identified his material.

General classification and classification of the orders Chromadorida, Desmodorida and Araeolaimida follows De Ley and Blaxter (2004) and Holovachov and Esquivel (2012). Classification of the order Enoplida follows that of Smol et al. (2014) and Andrassy (2002); Triplonchida – Holovachov and Shoshin (2014); Dorylaimida – Andrassy (2009); Mononchida – Ahmad and Jairajpuri (2010); Monhysterida – Fonseca and Decraemer (2008); Plectida – Holovachov (2014); Rhabditida – Holovachov et al. (2009), Geraert (2008), Geraert (2011), Sudhaus (2011), Sudhaus and Fürst von Lieven (2003).

Updated list of nematode species found in the Arctic

Phylum Nematoda

Order ENOPLIDA

Family Ironidae

Ironus tenuicaudatus de Man, 1876

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990).

Family Alaimidae

Alaimus arcuatus Thorne, 1939

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Alaimus depressus Loof, 1971*

Notes: Svalbard (Loof 1971).

***Alaimus parvus* Thorne, 1939**

Notes: Svalbard (Loof 1971).

***Alaimus primitivus* de Man, 1880**

Notes: Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Alaimus proximus* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Alaimus similis* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Cosalaimus striatus* (Loof, 1964)**

Nomenclature:

Alaimus striatus Loof, 1964

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Amphidelus elegans* (de Man, 1921)**

Nomenclature:

Alaimus elegans de Man, 1921

Notes: Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Paramphidelus dolichurus* (de Man, 1876)**

Nomenclature:

Amphidelus dolichurus (de Man, 1876)

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Paramphidelus paludicola* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991b, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

***Paramphidelus paramonovi* (Eliashvili, 1971)**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Paramphidelus pusillus* (Thorne, 1939)**

Nomenclature:

Amphidelus pusillus Thorne, 1939

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Rhabdolaimidae***Rhabdolaimus terrestris* de Man, 1880**

Notes: Svalbard (Loof 1971); Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Family Trefusiidae***Tripylina arenicola* (de Man, 1880)**

Nomenclature:

Trischistoma arenicola (de Man, 1880)

Notes: Nunavut, Canada (Mulvey 1969c).

***Trischistoma monohystera* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Order TRIPLONCHIDA**Family Tobrilidae*****Tobrilus aberrans* (W. Schneider, 1925)**

Notes: Northwest territories, Canada (Ebsary 1982).

Tobrilus affinis* Gagarin, 1996

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

***Tobrilus brevisetosus* (W. Schneider, 1925)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Tobrilus gracilis* (Bastian, 1865)**

Notes: Nunavut, Canada (Mulvey 1969c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Gagarin and Kuzmin 1983, Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

Tobrilus helveticus* (Hofmänner in Hofmänner & Menzel, 1914)*Nomenclature:**

Trilobus pseudallophysis Micoletzky 1925

Notes: Greenland (Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin and Gagarin 1990).

Tobrilus modestus* Gagarin, 1996

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

Tobrilus parvus* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Tobrilus tripylis* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

***Brevitobrilus stefanskii* (Micoletzky, 1925)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1999a, Gagarin 2001b).

***Epitobrilus allophysis* (Steiner, 1919)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Eutobrilus affectiosus* Shoshin, 1988*Nomenclature:**

Eutobrilus antarcticus sensu Gagarin, 1993, 2001; *Raritobrilus antarcticus* sensu Gagarin 1990, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a, Gagarin 2009).

***Eutobrilus altherri* (Andrássy, 1953)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

***Eutobrilus andrassyi* (Altherr, 1963)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2009, Kuzmin and Gagarin 1990).

***Eutobrilus grandipapillatus* (Brakenhoff, 1914)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Eutobrilus selengaensis* (Tsalolikhin, 1977)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

***Neotobrilus longus* (Leidy, 1852)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin and Gagarin 1990).

***Paratrilobus grandipapilloides* Micoletzky, 1922**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Paratrilobus rapis* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Peritobrilus arcticus* (Gagarin, 1991)*Nomenclature:**

Eutobrilus arcticus Gagarin, 1991*

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Peritobrilus vipriensis* Gagarin, 1999

Notes: Lena River estuary, Russia (Gagarin 1999b, Gagarin 2001b).

Quasibrilus strenuus* (Gagarin, 1991)*Nomenclature:**

Eutobrilus strenuus Gagarin, 1991*

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991a, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Raritobrilus steineri* (Micoletzky, 1925)*Nomenclature:**

Eutobrilus steineri (Micoletzky, 1925); *Tobrilus steineri* Micoletzky, 1925

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin 1986, Kuzmin and Gagarin 1990).

Semitobrilus ebsaryi* Tsalolikhin, 2000**Nomenclature:**

Tobrilus longicaudatus sensu Ebsary, 1982

Notes: Northwest territories, Canada (Ebsary 1982).

Semitobrilus longicaudatus* (Schneider, 1923)*Nomenclature:**

Tobrilus longicaudatus (Schneider, 1923)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Semitobrilus parapellucidus* (Ebsary, 1982)*Nomenclature:**

Tobrilus parapellucidus Ebsary, 1982*

Notes: Northwest territories, Canada (Ebsary 1982); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

***Semitobrilus gagarini* (Ebsary, 1982)**

Notes: Lena River estuary, Russia (Gagarin 2001b).

Family Tripylidae***Tripyla affinis* de Man, 1880**

Notes: Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Tripyla dubia* Gagarin, 1997

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Tripyla filicaudata* de Man, 1880**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

Tripyla glomerans* Bastian, 1865*Nomenclature:**

Tripyla papillata Bütschli, 1873

Notes: Svalbard (Loof 1971); Greenland (Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

Tripyla infia* Brzeski & Winiszewska-Slipinska, 1993*Nomenclature:**

Tripyla filipjevi Altherr in Altherr & Delamare Deboutteville, 1972

Notes: Svalbard (Janiec 1997); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 1996, Gagarin 2001b, Gagarin 2001a).

***Tripyla magna* Altherr in Altherr & Delamare Deboutteville, 1972**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 1996, Gagarin 2001b, Gagarin 2001a).

***Tripyla setifera* Bütschli, 1873**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Prismatolaimidae***Prismatolaimus dolichurus* de Man, 1880**

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Greenland (Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Prismatolaimus intermedius* (Bütschli, 1873)**

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Prismatolaimus primitivus* Loof, 1971

Notes: Svalbard (Loof 1971).

Prismatolaimus stenolaimoides* Loof, 1971

Notes: Svalbard (Loof 1971).

Prismatolaimus tareya* Gagarin & Kuzmin, 1972

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1993, Gagarin and Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990).

***Prismatolaimus verrucosus* Hirschmann, 1952**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Family Bastianiiidae***Bastiania gracilis* de Man, 1876**

Notes: Svalbard (Loof 1971); Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Bastiania parexilis* De Coninck, 1935**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Odontolaimidae***Odontolaimus chlorurus* de Man, 1880**

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Diphtherophoridae***Diphtherophora communis* de Man, 1880**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Diphtherophora minuta* Ivanova, 1958**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Diphtherophora obesa* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Diphtherophora perplexans* (Cobb, 1913)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tyloaimophorus bulgaricus* (Andrássy, 1958)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tyloaimophorus cylindricus* (Cobb, 1920)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Trichodoridae***Trichodorus californicus* Allen, 1957**

Notes: Alaska (Bernard 1992).

Trichodorus carlingi* Bernard, 1992

Notes: Alaska (Bernard 1992).

Order DORYLAIMIDA**Family Nygolaimidae*****Paravulvus hartingii* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a).

***Clavicaudoides clavicaudatus* (Altherr, 1953)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Solididens vulgaris* (Thorne, 1930)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Dorylaimidae***Calcaridorylaimus arcticus* Gagarin, 1997***

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Calcaridorylaimus promissus* Andrásy, 1986**

Notes: Alaska (Andrássy 2003c).

***Chrysodorus filiformis* (Bastian, 1865)**

Nomenclature:

Dorylaimus filiformis Bastian, 1865

Notes: Greenland (Allgén 1954).

Crocodorylaimus biserovi* Gagarin, 1996

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Crocodorylaimus flavomaculatus* (Linstow, 1876)**

Nomenclature:

Mesodorylaimus flavomaculatus (Linstow, 1876)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Crocodorylaimus dadayi* (Thorne & Swanger, 1936)**

Nomenclature:

Laimydorus dadayi (Thorne & Swanger, 1936)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986).

***Dorylaimus lineatus* Altherr in Altherr & Delamare-Deboutteville, 1972**

Notes: Northwest territories, Canada (Mulvey and Anderson 1979).

***Dorylaimus stagnalis* Dujardin, 1845**

Notes: Greenland (Ditlevsen 1927); Northwest territories, Canada (Mulvey and Anderson 1979); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin

and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Laimydorus doryuris* (Ditlevsen, 1911)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Laimydorus finalis* Thorne, 1975**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Laimydorus pseudostagnalis* (Micoletzly, 1927)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Mesodorylaimus bastiani* (Bütschli, 1873)**

Nomenclature:

Dorylaimus bastiani Bütschli, 1873; *Dorylaimus langii* Cobb, 1888

Notes: Svalbard (von Linstow 1900); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Mesodorylaimus japonicus* (Cobb in Thorne & Swanger, 1936)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Mesodorylaimus litoralis* Loof, 1969**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a).

***Mesodorylaimus pendschikenticus* (Tulaganov, 1949)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a).

Family Actinolaimidae

***Paractinolaimus macrolaimus* (de Man, 1884)**

Nomenclature:

Actinolaimus macrolaimus (de Man, 1884)

Notes: Greenland (Ditlevsen 1927); Alaska (Andrássy 2003c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Paractinolaimus longidrilus* Eveleigh, 1982

Notes: Northwest territories, Canada (Eveleigh 1982).

***Westindicus cinctus* (Cobb in Thorne, 1939)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Qudsianematidae

Arctidorylaimus arcticus* Mulvey & Anderson, 1979

Notes: Northwest territories, Canada (Mulvey and Anderson 1979).

***Allodorylaimus andrassyi* (Meyl, 1955)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Allodorylaimus diadematus* (Cobb in Thorne & Swanger, 1936)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Allodorylaimus holdmani* (Andrássy, 1959)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Allodorylaimus lindbergi* (Andrássy, 1960)**

Nomenclature:

Eudorylaimus lindbergi Andrássy, 1960; *Allodorylaimus rarus* Gagarin, 1999*;
Eudorylaimus curvicaudatus Eliava, 1968

Notes: Lena River estuary, Russia (Gagarin 1999a, Gagarin 1999b, Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 1999a, Gagarin 2001a, Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Allodorylaimus uniformis* (Thorne, 1929)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Eudorylaimus acuticauda* (de Man, 1880)**

Nomenclature:

Dorylaimus acuticauda de Man, 1880; *Dorylaimus carteri acuticauda* Micoletzky, 1922; *Dorylaimus carteri* Bastian, 1865 sf. *acuticaudata* de Man, 1880 (lapsus); *Dorylaimus carteri* Bastian, 1865 var. *brevicaudatus* f. *typica* sf. *acuticauda* de Man, 1880

Notes: Jan Mayen (Allgén 1953); Greenland (Allgén 1954, Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Eudorylaimus acutus* (Thorne & Swanger, 1936)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Eudorylaimus bureshi* (Andrássy, 1958)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Eudorylaimus carteri* (Bastian, 1865)**

Nomenclature:

Dorylaimus carteri Bastian, 1865

Notes: Svalbard (Klekowski and Opalinski 1986, Klekowski and Opalinski 1990, Klekowski and Opalinski 1992, Opalinski and Klekowski 1992); Jan Mayen (Allgén 1953); Greenland (Ditlevsen 1927); Alaska (Andrássy 2003c); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin and Kuzmin 1983, Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Eudorylaimus centrocercus* (de Man, 1880)**

Nomenclature:

Dorylaimus centrocercus de Man, 1880; *Aporcelaimellus centrocercus* (de Man, 1880)

Notes: Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990).

Eudorylaimus iners* (Bastian, 1865)*Nomenclature:***Dorylaimus gracilis* de Man, 1876**Notes:** Jan Mayen (Allgén 1953).***Eudorylaimus leuckarti* (Bütschli, 1873)****Nomenclature:***Dorylaimus carteri* Bastian, 1865 var. *brevicaudatus* Micoletzly, 1922 f. *typica* Micoletzky, 1922**Notes:** Greenland (Allgén 1954).***Eudorylaimus megodon* Loof, 1971*****Notes:** Svalbard (Loof 1971).***Eudorylaimus sub junctus* Loof, 1971*****Notes:** Svalbard (Loof 1971).***Eudorylaimus vanrosseni* Loof, 1971*****Notes:** Svalbard (Loof 1971).***Epidorylaimus agilis* (de Man, 1880)****Nomenclature:***Dorylaimus agilis* de Man, 1880; *Dorylaimus carteri* Bastian, 1865 var. *agilis* de Man, 1880; *Eudorylaimus agilis* (de Man, 1880); *Laimydorus agilis* (de Man, 1880)**Notes:** Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Greenland (Allgén 1954); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).***Epidorylaimus angulosus* (Thorne & Swanger, 1936)****Nomenclature:***Eudorylaimus anquilosus* (Thorne & Swanger, 1936)**Notes:** Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Epidorylaimus consobrinus* (de Man, 1918)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin and Gagarin 1990).

***Epidorylaimus humilis* (Thorne & Swanger, 1936)**

Nomenclature:

Eudorylaimus humilis (Thorne & Swanger, 1936)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Epidorylaimus lugdunensis* (de Man, 1880)**

Nomenclature:

Dorylaimus carteri Bastian, 1865 sf. *lugdunensis* de Man, 1880; *Dorylaimus carteri lugdunensis* Micoletzky, 1922; *Eudorylaimus lugdunensis* (de Man, 1880); *Dorylaimus reisingeri* Ditlevsen, 1927*

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Greenland (Ditlevsen 1927); Alaska (Andrássy 2003c); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Epidorylaimus muscorum* (Skwarra, 1921)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Epidorylaimus rivalis* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991b, Gagarin 2001b, Gagarin 2001a).

***Microdorylaimus parvus* (de Man, 1880)**

Nomenclature:

Eudorylaimus parvus (de Man, 1880)

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Crassolabium circulifer* (Loof, 1961)**

Nomenclature:

Eudorylaimus circulifer Loof, 1961

Notes: Svalbard (Loof 1971).

***Crassolabium ettersbergense* (de Man, 1885)**

Nomenclature:

Eudorylaimus ettersbergensis (de Man, 1885); *Thonus ettersbergensis* (de Man, 1885)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Crassolabium laticollis* (de Man, 1906)**

Nomenclature:

Thonus laticollis (de Man, 1906)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Dorydorella bryophila* (de Man, 1880)**

Nomenclature:

Dorylaimus carteri Bastian, 1865 sf. *briophilus* de Man, 1880

Notes: Jan Mayen (Allgén 1953).

***Dorydorella pratensis* (de Man, 1880)**

Nomenclature:

Dorylaimus carteri Bastian, 1865 sf. *pratensis* de Man, 1880

Notes: Jan Mayen (Allgén 1953).

***Ecumenicus monohystera* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Labronema fimbriatum* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Labronema goodeyi* Altherr in Altherr & Delamare-Deboutteville, 1972**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a).

***Labronema loeffleri* Andrassy, 1978**

Notes: Lena River estuary, Russia (Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a).

***Labronema stechlinense* Altherr, 1968**

Notes: Alaska (Andrássy 2003c).

Family Aporcelaimidae***Akrotonus striaticaudatus* (Cobb, 1906)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Aporcelaimellus krygeri* (Ditlevsen, 1928)*Nomenclature:**

Eudorylaimus krygeri (Ditlevsen, 1928)

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b, Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 2001b).

Aporcelaimellus obscurus* (Thorne & Swanger, 1936)*Nomenclature:**

Eudorylaimus obscurus (Thorne & Swanger, 1936)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Aporcelaimellus obtusicaudatus* (Bastian, 1865)*Nomenclature:**

Dorylaimus obtusicaudatus Bastian, 1865; *Dorylaimus obtusicaudatus* Bastian, 1865 f. *butschlii* Micoletzky, 1922; *Aporcelaimus obtusicaudatus* (Bastian, 1865)

Notes: Jan Mayen (Allgén 1953, Allgén 1954); Greenland (Allgén 1954, Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990).

Aporcelaimellus papillatus* (Bastian, 1865)*Nomenclature:**

Aporcelaimus papillatus (Bastian, 1865)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Aporcelaimellus paraobtusicaudatus* (Micoletzky, 1922)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Aporcelaimellus tritici* (Bastian, 1865)**

Nomenclature:

Dorylaimus tritici Bastian, 1865

Notes: Jan Mayen (Allgén 1953); Greenland (Allgén 1954).

***Aporcelaimus eurydoris* (Ditlevsen, 1911)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Aporcelaimus polaris* Andrassy, 2003

Notes: Alaska (Andrássy 2003c).

***Aporcelaimus superbus* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Metaporcelaimus labiatus* (de Man, 1880)**

Nomenclature:

Dorylaimus labiatus de Man, 1880

Notes: Jan Mayen (Allgén 1953).

Family Crateronematidae

***Chrysonema maksymovi* (Altherr, 1963)**

Nomenclature:

Eudorylaimus maksymovi (Altherr, 1963)

Notes: Svalbard (Klekowski and Opalinski 1986, Klekowski and Opalinski 1990, Loof 1971).

Family Nordiidae

Enchodelus analatus (Ditlevsen, 1927)

Nomenclature:

Dorylaimus (Doryllium) analatus Ditlevsen, 1927*

Notes: Svalbard (Loof 1971); Greenland (Ditlevsen 1927).

Enchodelus groenlandicus (Ditlevsen, 1927)

Nomenclature:

Dorylaimus (Doryllium) groenlandicus Ditlevsen 1927*

Notes: Greenland (Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Elshishka et al. 2012).

Enchodelus cf. macrodoroides (Steiner, 1914)

Notes: Svalbard (Loof 1971).

Enchodelus macrodorus (de Man, 1880)

Nomenclature:

Dorylaimus macrodorus de Man, 1880

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Enchodelus makarovae Elshishka et al., 2012*

Notes: Taymyr and Severnaya Zemlya, Russia (Elshishka et al. 2012).

Enchodelus parateres Baqri & Jairajpuri, 1974

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

Enchodelus parvus Loof, 1971*

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Enchodelus teres* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, (Kuzmin and Gagarin 1990).

***Heterodorus arquatus* (Thorne, 1939)**

Nomenclature:

Enchodelus arquatus Thorne, 1939

Notes: Nunavut, Canada (Elshishka et al. 2013); Taymyr and Severnaya Zemlya, Russia (Elshishka et al. 2013, Kuzmin and Gagarin 1990).

***Heterodorus conicaudatus* (Ditlevsen, 1927)**

Nomenclature:

Dorylaimus conicaudatus Ditlevsen, 1927*; *Enchodelus conicaudatus* (Ditlevsen, 1927)

Notes: Svalbard (Loof 1971); Greenland (Ditlevsen 1927).

***Heterodorus magnificus* Altherr, 1952**

Notes: Taymyr and Severnaya Zemlya, Russia (Elshishka et al. 2013).

***Pungentus longidens* (Thorne & Swanger, 1936)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Rhyssocolpus allenii* (Brzeski, 1962)**

Nomenclature:

Eudorylaimus allenii Brzeski, 1962*

Notes: Svalbard (Brzeski 1962, Loof 1971).

Rhyssocolpus aquilonius* Andrassy, 2003

Notes: Alaska (Andrássy 2003c).

Rhyssocolpus arcticus* Ebsary, 1984

Notes: Nunavut, Canada (Ebsary 1984).

Longidorella magna* Loof, 1971

Notes: Svalbard (Loof 1971); Alaska (Andrássy 2003c).

***Longidorella parva* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Longidorella penetrans* (Thorne & Swanger, 1936)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Leptonchidae***Xiphinemella eversum* Heyns, 1969**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Tylencholaimidae***Tylencholaimus crassus* Loof & Jairajpuri, 1968**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tylencholaimus mirabilis* (Bütschli, 1873)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tylencholaimus proximus* Thorne, 1939**

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tylencholaimus stecki* Steiner, 1914**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Tylencholaimus teres* Thorne, 1939**

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990).

Family Mydonomidae***Dorylaimoides arcuicaudatus* Baqri & Jairajpuri, 1969**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Tylencholaimellidae***Tylencholaimellus coronatus* Thorne, 1939**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Order MONONCHIDA**Family Mononchidae*****Mononchus absconditus* (Tsalolikhin, 1974)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b, Gagarin 2001a); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Mononchus angarensis* Gagarin, 1984**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

***Mononchus aquaticus* Coetzee, 1968**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Mononchus maduei* Schneider, 1925**

Notes: Northwest territories, Canada (Mulvey 1978).

***Mononchus niddensis* Skwarra, 1921**

Notes: Nunavut, Canada (Mulvey 1967b, Mulvey 1978).

Mononchus superbus* Mulvey, 1978

Notes: Northwest territories, Canada (Mulvey 1978).

Mononchus tajmiris* Gagarin, 1991

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1991b, Gagarin 1993, Gagarin 2001a, Gagarin 2001b).

***Mononchus truncatus* Bastian, 1865**

Notes: Northwest territories, Canada (Mulvey 1978); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Paramononchus arcticus* Mulvey, 1978

Notes: Northwest territories, Canada (Mulvey 1978).

***Prionchulus longus* (Thorne, 1929)**

Notes: Nunavut, Canada (Mulvey 1967a, Mulvey 1978); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Prionchulus major* Gagarin, 2001

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 2001c, Gagarin 2001b).

***Prionchulus muscorum* (Dujardin, 1845)**

Notes: Svalbard (Klekowski and Opalinski 1986, Klekowski and Opalinski 1990); Nunavut, Canada (Mulvey 1967a); Alaska (Andrássy 2003a); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Prionchulus punctatus* Cobb, 1917**

Notes: Nunavut, Canada (Mulvey 1967a).

Prionchulus sedatus* Gagarin, 2000

Notes: Lena River estuary, Russia (Gagarin 2000, Gagarin 2001b).

Prionchulus spectabilis* (Ditlevsen, 1911)*Nomenclature:**

Mononchus spectabilis Ditlevsen, 1911

Notes: Greenland (Ditlevsen 1927).

Clarkus macropapillatus (Mulvey, 1967)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Clarkus papillatus (Bastina, 1865)

Nomenclature:

Mononchus papillatus Bastian, 1865

Notes: Jan Mayen (Allgén 1953); Greenland (Allgén 1954, Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Coomansus fletcherensis Mulvey, 1978*

Notes: Nunavut, Canada (Mulvey 1978).

Coomansus gerlachei (de Man, 1904)

Notes: Northwest territories, Canada (Mulvey 1978).

Coomansus parvus (de Man, 1880)

Notes: Alaska (Andrássy 2003a).

Parkellus zschorkei (Menzel, 1913)

Nomenclature:

Iotonchus zschorkei (Menzel, 1913)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Mylonchulidae

Mylonchulus brachyuris (Bütschli, 1873)

Nomenclature:

Mononchus brachyuris Bütschli, 1873

Notes: Greenland (Ditlevsen 1927); Alaska (Andrássy 2003a); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Mylonchulus gigas* Gagarin, 1993**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Mylonchulus incurvus* Cobb, 1917**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Mylonchulus lacustris* (Cobb in Cobb, 1915)**

Notes: Northwest territories, Canada (Mulvey 1978).

Family Anatonchidae***Miconchus exilis* (Cobb, 1917)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Itonchidae***Jensenonchus amplus* Andrassy, 2003***

Notes: Alaska (Andrássy 2003a).

Order CHROMADORIDA**Family Chromadoridae*****Chromadorita arctica* Gagarin, 1999***

Nomenclature:

Chromadorida arctica Gagarin, 1999 (lapsus)

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1999a, Gagarin 2001b).

***Chromadorita leuckarti* (de Man, 1876)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Punctodora ratzemburgensis* (Linstow, 1876)**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Family Achromadoridae

Achromadora micoletzkyi (Stefanski, 1915)

Nomenclature:

Cyatholaimus micoletzkyi Steiner, 1916*; *Achromadora steineri* Mulvey, 1969

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Achromadora ruricola (de Man, 1880)

Notes: Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Achromadora cf. semiarmata Altherr, 1952

Notes: Svalbard (Loof 1971).

Achromadora tenax (de Man, 1876)

Notes: Svalbard (Janiec 1997, Loof 1971).

Achromadora terricola (de Man, 1880)

Nomenclature:

Cyatholaimus ornatus Steiner, 1916*

Notes: Greenland (Ditlevsen 1927); Nunavut, Canada (Mulvey 1969c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Family Ethmolaimidae

Ethmolaimus pratensis de Man, 1880

Nomenclature:

Ethmolaimus arcticus Steiner, 1916*

Notes: Nunavut, Canada (Mulvey 1969c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Order DESMODORIDA**Family Microlaimidae*****Microlaimus globiceps* de Man, 1880**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Prodesmodora arctica* (Mulvey, 1969)*Nomenclature:**

Microlaimus arcticus Mulvey 1969*

Notes: Nunavut, Canada (Mulvey 1969c); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Prodesmodora circulata* (Micoletzky, 1913)**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Order MONHYSTERIDA**Family Xyalidae*****Hofmaenneria hazanensis* Mulvey, 1969***

Notes: Nunavut, Canada (Mulvey 1969c).

***Daptonema dubium* (Bütschli, 1873)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin and Kuzmin 1983, Kuzmin and Gagarin 1990).

Daptonema fortis* Gagarin, 1993

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b, Gagarin 2001a).

Daptonema sibiricum* Gagarin, 2000

Notes: Lena River estuary, Russia (Gagarin 2000, Gagarin 2001b).

***Daptonema tenuispiculum* (Ditlevsen, 1918)**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1999a, Gagarin 2001b).

***Theristus agilis* (de Man, 1880)**

Nomenclature:

Monhystera agilis de Man, 1880

Notes: Jan Mayen (Allgén 1953, Tchesunov and Pletnikova 1986); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990).

***Theristus flevensis* Schuurmans Stekhoven, 1935**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 2001a).

Family Monhysteridae***Eumonhystera barbata* Andrásy, 1981**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 2001a).

***Eumonhystera dispar* (Bastian, 1865)**

Nomenclature:

Monhystera dispar Bastian, 1865

Notes: Svalbard (Loof 1971); Nunavut, Canada (Mulvey 1969c); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Eumonhystera filiformis* (Bastian, 1865)**

Nomenclature:

Monohystera filiformis Bastian, 1865 (lapsus); *Monhystera filiformis* Butschlii, 1873 (lapsus)

Notes: Svalbard (Janiec 1997, Loof 1971); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Eumonhystera kuzmini* Gagarin, 1997

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Eumonhystera maxima* Gagarin, 1996**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Eumonhystera papuana* (Daday, 1899)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

***Eumonhystera pseudobulbosa* (Daday, 1896)**

Nomenclature:

Monohystera pseudobulbosa Daday, 1896 (lapsus)

Notes: Greenland (Ditlevsen 1927).

***Eumonhystera similis* (Bütschli, 1873)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b, Kuzmin and Gagarin 1990).

***Eumonhystera simplex* (de Man, 1880)**

Nomenclature:

Monhystera simplex de Man, 1880

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Eumonhystera tuporis* Gagarin, 1991**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1999a, Gagarin 2001b).

***Eumonhystera vulgaris* (de Man, 1880)**

Nomenclature:

Monhystera vulgaris de Man, 1880; *Monohystera vulgaris* de Man, 1880 (lapsus)

Notes: Svalbard (Janiec 1997, Loof 1971); Jan Mayen (Allgén 1953); Nunavut, Canada (Mulvey 1969c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin and Gagarin 1990); Novaya Zemlya and

Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b, Steiner 1916a).

***Geomonhystera aenariensis* (Meyl, 1953)**

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Geomonhystera paravillosa* (Meyl, 1954)**

Nomenclature:

Monhystera paravillosa Meyl, 1954

Notes: Nunavut, Canada (Mulvey 1969c).

***Geomonhystera villosa* (Butschli, 1873)**

Nomenclature:

Monohystera villosa Butschli, 1873 (lapsus)

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Halomonhystera disjuncta* (Bastian, 1865)**

Nomenclature:

Monhystera disjuncta Bastian, 1865

Notes: Jan Mayen (Allgén 1953); Novaya Zemlya and Vaigach island, Russia (Gagarin 1999a, Gagarin 2001b).

Monhystera amabilis* Gagarin, 1997

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 1997a, Gagarin 2001c, Gagarin 2001b).

***Monhystera stagnalis* Bastian, 1865**

Notes: Svalbard (Janiec 1997, Loof 1971); Taymyr and Severnaya Zemlya, Russia (Gagarin and Kuzmin 1983, Kuzmin and Gagarin 1990).

***Monhystralla macrura* (de Man, 1880)**

Nomenclature:

Monhystera macrura de Man, 1880

Notes: Jan Mayen (Allgén 1953).

Tridentula bidenticulata* (Gagarin, 1997)*Nomenclature:**

Eumonhystera bidenticulata Gagarin, 1997*; *Tridentulus diplodenticulata* Gagarin, 1997 (lapsus); *Eumonhystera diplodenticulata* Gagarin, 1997 (lapsus)

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997b, Gagarin 1997a, Gagarin 2001b).

Tridentula obscura* (Gagarin, 2000)*Nomenclature:**

Tridentulus obscurus Gagarin, 2000

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 2001b).

Order ARAEOLAIMIDA**Family Diplopeltidae*****Cylindrolaimus baradlanus* Andrassy, 1959**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Cylindrolaimus communis* de Man, 1880**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Cylindrolaimus melancholicus* de Man, 1880**

Notes: Svalbard (Loof 1971); Nunavut, Canada (Mulvey 1969c); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Order PLECTIDA**Family Camacolaimidae*****Deontolaimus papillatus* de Man, 1880**

Notes: Greenland (Ditlevsen 1927).

Family Chronogastridae***Chronogaster typica* (de Man, 1921)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Plectidae***Anaplectus grandepapillatus* (Ditlevsen, 1928)****Nomenclature:**

Anaplectus submersus (Hirschmann, 1952)

Notes: Svalbard (Janiec 1997); Alaska (Andrássy 2003b); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990).

Anaplectus granulosus* (Bastian, 1865)*Nomenclature:**

Plectus granulosus Bastian, 1865

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Greenland (Ditlevsen 1927); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b, Steiner 1916a).

***Anaplectus porosus* Allen and Noffsinger, 1968**

Notes: Svalbard (Klekowski and Opalinski 1986, Klekowski and Opalinski 1990, Klekowski and Opalinski 1992, Loof 1971).

Arctiplectus alaskanus* Andrássy, 2003

Notes: Alaska (Andrássy 2003b).

Perioplectus labiosus* (Sanwal, 1968)*Nomenclature:**

Periplectus labiosus Sanwal, 1968*

Notes: Nunavut, Canada (Sanwal 1968, Zell 1993).

Perioplectus secundus* Andrásy, 2003

Notes: Alaska (Andrássy 2003b).

***Plectus acuminatus* Bastian, 1865**

Notes: Svalbard (Loof 1971); Alaska (Andrássy 2003b); Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Plectus amorphotelus* Ebsary, 1985**

Notes: Svalbard (Zell 1993).

***Plectus aquatilis* Andrásy, 1984**

Notes: Svalbard (Janiec 1997).

***Plectus cf. armatus* Butschli, 1873**

Notes: Svalbard (Loof 1971).

***Plectus assimilis* Bütschli, 1873**

Nomenclature:

Ceratoplectus assimilis (Bütschli, 1873)

Notes: Svalbard (Loof 1971); Greenland (Zell 1993); Alaska (Andrássy 2003b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Plectus cancellatus* Zullini, 1978**

Nomenclature:

Plectus thornei sensu Zell, 1993

Notes: Nunavut, Canada (Ebsary 1985, Zell 1993).

***Plectus cirratus* Bastian, 1865**

Notes: Svalbard (Klekowski and Opalinski 1986, Klekowski and Opalinski 1990, Klekowski and Opalinski 1992, Menzel 1920); Jan Mayen (Allgén 1953); Greenland (Ditlevsen 1927); Alaska (Andrássy 2003b); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Plectus communis* Bütschli, 1873**

Notes: Svalbard (Menzel 1920, Zell 1993); Iceland (Zell 1993); Greenland (Allgén 1954).

***Plectus cornus* Maggenti, 1961**

Nomenclature:

Ceratoplectus cornus (Maggenti, 1961)

Notes: Svalbard (Loof 1971, Zell 1993); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1976, Kuzmin and Gagarin 1990).

***Plectus elongatus* Maggenti, 1961**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Plectus geophilus* de Man, 1880**

Nomenclature:

Plectus minor Novikova & Gagarin, 1971

Notes: Svalbard (Loof 1971, Zell 1993); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Plectus inquirendus* Andrassy, 1958**

Notes: Svalbard (Loof 1971, Zell 1993); Alaska (Andrássy 2003b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Plectus intermedius* Cobb, 1893**

Notes: Nunavut, Canada (Zell 1993).

***Plectus longicaudatus* Butschli, 1873**

Notes: Svalbard (Loof 1971, Zell 1993); Jan Mayen (Allgén 1953); Iceland (Zell 1993); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Plectus magadanii* Kuzmin, 1979**

Notes: Svalbard (Zell 1993).

***Plectus murrayi* Yeates, 1970**

Notes: Svalbard (Zell 1993).

***Plectus cf. opisthocirculus* Andrassy, 1952**

Notes: Svalbard (Janiec 1997).

***Plectus palustris* de Man, 1880**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Plectus parietinus* Bastian, 1865**

Nomenclature:

Plectus cirratus Bastian, 1865 f. *parietinus* Bastian, 1865

Notes: Svalbard (Janiec 1997, Klekowski and Opalinski 1986, Klekowski and Opalinski 1990, Klekowski and Opalinski 1992, Loof 1971, Opalinski and Klekowski 1992); Jan Mayen (Allgén 1953); Iceland (Zell 1993); Alaska (Andrássy 2003b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1996, Gagarin 2001b, Gagarin 2001a, Gagarin and Kuzmin 1983, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

***Plectus parvus* Bastian, 1865**

Notes: Svalbard (Loof 1971, Zell 1993); Iceland (Zell 1993); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Plectus rhizophilus* de Man, 1880**

Nomenclature:

Plectus cirratus Bastian, 1865 var. *rhizophilus* de Man, 1880

Notes: Svalbard (Loof 1971, Zell 1993); Jan Mayen (Allgén 1953, Steiner 1916a); Greenland (Allgén 1954); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin and Kuzmin 1983, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

***Plectus rotundilabiatus* Zell, 1993**

Notes: Iceland (Zell 1993).

***Plectus tenuis* Bastian, 1865**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 1999a, Gagarin 2001b).

***Plectus varians* Maggenti, 1961**

Notes: Iceland (Zell 1993); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1976).

***Plectus velox* Bastian, 1865**

Notes: Svalbard (Zell 1993).

***Tylocephalus auriculatus* (Bütschli, 1873)**

Nomenclature:

Plectus auriculatus Bütschli, 1873

Notes: Jan Mayen (Steiner 1916a); Nunavut, Canada (Anderson 1966); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Ereptionema arcticum* Loof, 1971

Notes: Svalbard (Boström 1987a, Holovachov et al. 2003, Loof 1971).

Ereptionema fimbriatum* Anderson, 1966

Notes: Nunavut, Canada (Anderson 1966).

***Wilsonema otophorum* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Family Metateratocephalidae

Metateratocephalus crassidens (de Man, 1880)

Nomenclature:

Teratocephalus crassidens de Man, 1880; *Euteratocephalus crassidens* (de Man, 1880)

Notes: Svalbard (Boström 1989, Loof 1971); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Euteratocephalus palustris (de Man, 1880)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Aulolaimidae

Aulolaimus oxycephalus de Man, 1880

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

Order RHABDITIDA

Family Teratocephalidae

Teratocephalus costatus Andrassy, 1958

Nomenclature:

Teratocephalus decarinus Anderson, 1969*

Notes: Svalbard (Boström 1989, Loof 1971); Nunavut, Canada (Anderson 1969); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Teratocephalus dadayi Andrassy, 1968

Nomenclature:

Teratocephalus subvexus Anderson, 1969*

Notes: Nunavut, Canada (Anderson 1969).

Teratocephalus lirellus* Anderson, 1969

Notes: Svalbard (Boström 1989, Loof 1971); Nunavut, Canada (Anderson 1969); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Teratocephalus tenuis* Andrassy, 1958**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Teratocephalus terrestris* (Bütschli, 1873)**

Notes: Svalbard (Boström 1989); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Family Alloionematidae***Rhabditophanes schneideri* (Bütschli, 1873)****Nomenclature:**

Cheilobus quadrilabiatus Cobb, 1924

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Panagrolaimidae***Panagrolaimus papillosus* Loof, 1971***

Notes: Svalbard (Loof 1971).

***Panagrolaimus rigidus* (Schneider, 1866)**

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1976, Kuzmin and Gagarin 1990).

Family Cephalobidae***Cephalobus filiformis* de Man, 1876****Nomenclature:**

species inquirenda

Notes: Jan Mayen (Allgén 1953).

***Cephalobus persegnis* Bastian, 1865**

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Acrobeloides buetschlii* (de Man, 1884)**

Nomenclature:

Cephalobus buetschlii de Man, 1884

Notes: Svalbard (Menzel 1920); Jan Mayen (Steiner 1916a); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Acrobeloides enoploides* Loof, 1971

Notes: Svalbard (Loof 1971).

***Acrobeloides nanus* (de Man, 1880)**

Nomenclature:

Cephalobus nanus de Man, 1880

Notes: Svalbard (Loof 1971).

***Acrobeloides tricornis* (Thorne, 1925)**

Notes: Svalbard (Boström 1987a, Loof 1971).

Eucephalobus arcticus* Loof, 1971

Notes: Svalbard (Boström 1987a, Loof 1971).

***Eucephalobus mucronatus* (Kozlovska & Roguska-Wasilewska, 1963)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Eucephalobus oxyurooides* (de Man, 1876)**

Nomenclature:

Cephalobus oxyurooides de Man, 1876

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953).

***Eucephalobus paracornutus* De Coninck, 1943**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Eucephalobus striatus* (Bastian, 1865)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Pseudacrobeles elongatus* (de Man, 1880)**

Nomenclature:

Cephalobus elongatus de Man, 1880; *Heterocephalobus elongatus* (de Man, 1880)

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b, Kuzmin 1972, Kuzmin and Gagarin 1990).

***Chiloplacus latus* (Maupas, 1900)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Chiloplacus quintastriatus* Sumenkova in Sumenkova & Razjivin, 1968**

Nomenclature:

Chiloplacus saccatus Loof, 1971*

Notes: Svalbard (Boström 1987a, Loof 1971).

***Chiloplacus symmetricus* (Thorne, 1925)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Chiloplacus trilineatus* Steiner, 1940**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Stegelletina insubrica* (Steiner, 1914)**

Nomenclature:

Cervidellus insubricus (Steiner, 1914); *Ypsilononellus insubricus* (Steiner, 1914)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Stegelletina similis* (Thorne, 1925)*Nomenclature:**

Stegelleta mucronata Loof, 1971*

Notes: Svalbard (Loof 1971).

Cervidellus vexilliger* (de Man, 1880)*Nomenclature:**

Cervidellus serratus (Thorne, 1925); *Ypsilononellus vexilliger* (de Man, 1880)

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Cervidellus spitzbergensis* Boström, 1987

Notes: Svalbard (Boström 1987b).

***Acrobeles ciliatus* von Linstow, 1877**

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Aphelenchoididae***Aphelenchoides arcticus* Sanwal, 1965***

Notes: Svalbard (Loof 1971); Nunavut, Canada (Sanwal 1965); Lena River estuary, Russia (Gagarin 2001b).

***Aphelenchoides blastophthorus* Franklin, 1952**

Notes: Lena River estuary, Russia (Gagarin 2001b).

***Aphelenchoides echinocaudatus* Haque, 1968**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Aphelenchoides goeldii* (Steiner, 1914)*Nomenclature:**

Aphelenchus goeldii Steiner, 1914

Notes: Jan Mayen (Steiner 1916a).

Aphelenchoides parasaprophilus* Sanwal, 1965

Notes: Nunavut, Canada (Sanwal 1965); Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

Aphelenchoides parietinus* (Bastian, 1865)*Nomenclature:**

Aphelenchus modestus de Man, 1876

Notes: Jan Mayen (Steiner 1916a); Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Aphelenchoides robustus* Gagarin, 1997

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997c, Gagarin 1997a, Gagarin 2001b).

***Aphelenchoides saprophilus* Franklin, 1957**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Aphelenchoides subtenuis* (Cobb, 1926)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Tylenchidae***Aglenchus agricola* (de Man, 1884)**

Notes: Greenland (Brzeski 1999); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Coslenchus costatus* (de Man, 1921)*Nomenclature:**

Tylenchus costatus de Man, 1921

Notes: Svalbard (Loof 1971); Greenland (Brzeski 1999); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

Basiria dolichura* Loof, 1971

Notes: Svalbard (Loof 1971).

Lelenchus leptosoma* (de Man, 1880)*Nomenclature:**

Tylenchus leptosoma de Man, 1880; *Anguillulina leptosoma* (de Man, 1880); *Filenchus leptosoma* (de Man, 1880)

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Filenchus cylindricaudus* (Wu, 1969)*Nomenclature:**

Tylenchus cylindricaudus Wu, 1969*

Notes: Nunavut, Canada (Wu 1969b).

***Filenchus cylindricus* (Thorne & Malek, 1968)**

Notes: Lena River estuary, Russia (Gagarin 2001b).

Filenchus discrepans* (Andrássy, 1954)*Nomenclature:**

Lelenchus discrepans Andrássy, 1954; *Ottolenchus discrepans* (Andrássy, 1954)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

Filenchus ditissimus* (Brzeski, 1963)*Nomenclature:**

Tylenchus ditissimus Brzeski, 1963

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin and Kuzmin 1983, Kuzmin and Gagarin 1990).

Filenchus facultativus (Szczygiel, 1970)

Notes: Greenland (Brzeski 1999).

Filenchus filiformis (Bütschli, 1873)

Nomenclature:

species inquirenda; *Tylenchus filiformis* Bütschli, 1873; *Tylenchus (Filenchus) filiformis* Bütschli, 1873

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

Filenchus hamatus (Thorne & Malek, 1968)

Notes: Greenland (Brzeski 1999).

Filenchus hazanensis (Wu, 1969)

Nomenclature:

Tylenchus hazenensis Wu, 1969*; *Dactylotylenchus filiformis* Wu, 1969*

Notes: Nunavut, Canada (Wu 1969b, Wu 1969a).

Filenchus minutus (Cobb, 1893)

Nomenclature:

species inquirenda

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Filenchus misellus (Andrássy, 1958)

Notes: Greenland (Brzeski 1999).

Filenchus orbus Andrássy, 1954

Nomenclature:

Tylenchus aquilonius Wu, 1969*

Notes: Greenland (Brzeski 1999); Nunavut, Canada (Wu 1969b).

***Filenchus quartus* (Szczygiel, 1969)**

Notes: Greenland (Brzeski 1999).

***Filenchus thornei* (Andrássy, 1954)**

Nomenclature:

Tylenchus thornei Andrássy, 1954

Notes: Svalbard (Loof 1971); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Malenches acarayensis* Andrássy, 1968**

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Malenches bryophilus* (Steiner, 1914)**

Nomenclature:

Tylenchus bryophilus Steiner, 1914

Notes: Svalbard (Loof 1971); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b).

***Malenches exiguum* (Massey, 1969)**

Nomenclature:

Ottolenchus sulcis Wu, 1970*

Notes: Nunavut, Canada (Wu 1970).

***Tylenchus davainei* Bastian, 1865**

Nomenclature:

Anguillulina davainei (Bastian, 1865); *Filenchus davainei* (Bastian, 1865)

Notes: Svalbard (Loof 1971); Jan Mayen (Allgén 1953); Greenland (Brzeski 1999, Ditlevsen 1927); Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin and Kuzmin 1983, Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2001b, Steiner 1916a).

Tylenchus neodavainei* Wu, 1969

Notes: Nunavut, Canada (Wu 1969b).

Tylenchus stylolineatus* Wu, 1969

Notes: Nunavut, Canada (Wu 1969b).

Family Dolichodoridae***Meiodorus hyalacus* (Anderson & Ebsary, 1982)**

Nomenclature:

Mulveyotus hyalacus Anderson & Ebsary, 1982*

Notes: Nunavut, Canada (Anderson and Ebsary 1982).

***Geocenamus arcticus* (Mulvey, 1969)**

Nomenclature:

Tylenchorhynchus arcticus Mulvey, 1969*

Notes: Svalbard (Loof 1971); Nunavut, Canada (Mulvey 1969a); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Geocenamus brevidens* (Allen, 1955)**

Nomenclature:

Merlinius brevidens (Allen, 1955)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Geocenamus circellus* (Anderson & Ebsary, 1982)**

Nomenclature:

Merlinius circellus Anderson & Ebsary, 1982*

Notes: Nunavut, Canada (Anderson and Ebsary 1982).

***Geocenamus joctus* (Thorne, 1949)**

Nomenclature:

Tetylenchus joctus Thorne, 1949

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

Geocenamus loofi* (Siddiqi, 1979)*Nomenclature:**

Tylenchus joctus sensu Loof, 1971; *Merlinius loofi* Siddiqi, 1979

Notes: Svalbard (Loof 1971, Siddiqi 1979).

Geocenamus microdorus* (Geraert, 1966)*Nomenclature:**

Tylenchorhynchus microdorus Geraert, 1966

Notes: Svalbard (Loof 1971).

Geocenamus tetylus* (Anderson & Ebsary, 1982)*Nomenclature:**

Merlinius tetylus Anderson & Ebsary, 1982*

Notes: Nunavut, Canada (Anderson and Ebsary 1982).

Nagellus borealis* Powers, Baldwin & Bell, 1983

Notes: Alaska (Powers et al. 1983).

Nagellus grandis* (Allen, 1955)*Nomenclature:**

Tylenchorhynchus grandis Allen, 1955

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Nagelus leptus* (Allen, 1955)*Nomenclature:**

Tylenchorhynchus leptus Allen, 1955

Notes: Svalbard (Loof 1971); Greenland (Brzeski 1999); Nunavut, Canada (Mulvey 1969a); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Nagellus lineatus* (Allen, 1955)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Nagellus obscurus* (Allen, 1955)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Nagellus parobscurus* (Mulvey, 1969)**

Nomenclature:

Tylenchorhynchus parobscurus Mulvey, 1969*

Notes: Nunavut, Canada (Mulvey 1969a).

***Tylenchorhynchus dubius* (Bütschli, 1873)**

Nomenclature:

Bitylenchus dubius (Bütschli, 1873)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin 1976, Kuzmin and Gagarin 1990).

***Tylenchorhynchus nanus* Allen, 1955**

Nomenclature:

Geocenamus nanus (Allen, 1955); *Merlinius nanus* (Allen, 1955)

Notes: Greenland (Brzeski 1999); Taymyr and Severnaya Zemlya, Russia (Kuzmin 1986, Kuzmin and Gagarin 1990).

***Tylenchorhynchus cf. nothus* Allen, 1955**

Notes: Svalbard (Loof 1971).

***Tylenchorhynchus parvus* Allen, 1955**

Nomenclature:

Bitylenchus parvus (Allen, 1955)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Family Hoplolaimidae***Rotylenchus brevicaudatus* (Hopper, 1959)**

Nomenclature:

Pararotylenchus brevicaudatus (Hopper, 1959)

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Helicotylenchus platyurus* Perry in Perry, Darling & Thorne, 1959**

Notes: Greenland (Brzeski 1999).

Helicotylenchus spitsbergensis* Loof, 1971

Notes: Svalbard (Loof 1971); Greenland (Brzeski 1999).

***Helicotylenchus varicaudatus* Yuen, 1964**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

Family Pratylenchidae***Pratylenchoides crenicauda* Winslow, 1958**

Notes: Svalbard (Loof 1971).

***Pratylenchoides magnicauda* (Thorne, 1935)**

Nomenclature:

Tylenchorhynchus magnicauda (Thorne, 1935)

Notes: Svalbard (Loof 1971).

***Pratylenchus pratensis* (de Man, 1880)**

Nomenclature:

Anguillulina pratense (de Man, 1880)

Notes: Jan Mayen (Allgén 1953).

***Hirschmanniella gracilis* (de Man, 1880)**

Nomenclature:

Tylenchus gracilis Cobb (lapsus)

Notes: Svalbard (von Linstow 1900).

Hirschmanniella trimucronata* Gagarin, 2000

Notes: Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a, Gagarin 2000, Gagarin 2001b).

Family Criconematidae***Criconemoides annulatus* Cobb in Taylor, 1936****Nomenclature:**

Criconemoides hemisphaericus Wu, 1965*

Notes: Svalbard (Loof 1971); Nunavut, Canada (Wu 1965).

Family Tylenchulidae***Paratylenchus macrophallus* (de Man, 1880)****Nomenclature:**

species inquirenda; *Anguillulina macrophallum* (de Man, 1880)

Notes: Jan Mayen (Allgén 1953).

***Paratylenchus cf. projectus* Jenkins, 1956**

Notes: Greenland (Brzeski 1999).

Family Anquinidae***Anguina agrostis* (Steinbuch, 1799)**

Notes: Nunavut, Canada (Mulvey 1963).

Subanguina askenasyi* (Bütschli, 1873)*Nomenclature:**

Ditylenchus askenasyi (Bütschli, 1873)

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Ditylenchus acutatus* Brzeski, 1991**

Notes: Greenland (Brzeski 1999).

Ditylenchus dryadis* Anderson & Mulvey, 1980

Notes: Nunavut, Canada (Anderson and Mulvey 1980).

***Ditylenchus equalis* Heyns, 1964**

Notes: Greenland (Brzeski 1999).

***Ditylenchus intermedius* (de Man, 1880)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Nothotylenchus acris* Thorne, 1941**

Notes: Nunavut, Canada (Mulvey 1969b); Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

***Nothotylenchus acutus* Khan, 1965**

Notes: Nunavut, Canada (Mulvey 1969b).

Nothotylenchus attenuatus* Mulvey, 1969

Notes: Nunavut, Canada (Mulvey 1969b).

***Nothotylenchus cf. danubialis* Andrassy, 1960**

Notes: Nunavut, Canada (Mulvey 1969b).

Family Neotylenchidae***Deladenus durus* (Cobb, 1922)**

Notes: Nunavut, Canada (Das 1964).

Hadrodenus megacondylus* Mulvey, 1969

Notes: Nunavut, Canada (Mulvey 1969b).

Hexatylus mulveyi* Das, 1964

Notes: Nunavut, Canada (Das 1964).

***Prothallonema mucronatum* (Thorne & Malek, 1968)**

Nomenclature:

Stictylus mucronatus Thorne & Malek, 1968

Notes: Greenland (Brzeski 1999); Nunavut, Canada (Mulvey 1969b).

Family Bunonematidae

***Bunonema hessi* Steiner, 1914**

Notes: Novaya Zemlya and Vaigach island, Russia (Steiner 1916b).

***Bunonema reticulatum* Richters, 1905**

Notes: Svalbard (Loof 1971).

Family Diplogastridae

***Diplogaster rivalis* (Leydig, 1854)**

Notes: Lena River estuary, Russia (Gagarin 2001b).

***Goffartia variabilis* (Micoletzky, 1922)**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a, Gagarin 2008).

***Fictor pictor* (Bastian, 1865)**

Notes: Taymyr and Severnaya Zemlya, Russia (Kuzmin and Gagarin 1990).

Fictor shoshini* Gagarin, 1995

Notes: Lena River estuary, Russia (Gagarin 1995, Gagarin 2001b); Novaya Zemlya and Vaigach island, Russia (Gagarin 1997a).

***Koerneria angarensis* (Gagarin, 1983)**

Nomenclature:

Fictor angarensis (Gagarin, 1983)

Notes: Lena River estuary, Russia (Gagarin 2001b); Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 2001b, Gagarin 2001a).

***Koerneria ruricola* (Gagarin, 1983)**

Nomenclature:

Fictor ruricola (Gagarin, 1983)

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 2001b).

***Mononchoides intermedius* Gagarin, 1993**

Notes: Taymyr and Severnaya Zemlya, Russia (Gagarin 1996, Gagarin 2001b).

Family Rhabditidae

***Choriorhabditis gracilicauda* (de Man, 1876)**

Nomenclature:

Rhabditis gracilicauda de Man, 1876

Notes: Jan Mayen (Allgén 1953).

***Choriorhabditis producta* (Schneider, 1866)**

Nomenclature:

Anguillulina intermedia (de Man, 1880)

Notes: Jan Mayen (Allgén 1953).

***Rhabditis terricola* Dujardin, 1844**

Nomenclature:

Rhabditis aspera Bütschli, 1873

Notes: Jan Mayen (Allgén 1953).

Aphelenchus nivalis* Aurivillius, 1883

Notes: Inquirenda et incertae sedis. Svalbard (Aurivillius 1883).

Macfadyenia filicaudata* Allgén, 1953

Notes: Inquirenda et incertae sedis. Jan Mayen (Allgén 1953).

Parachromagasteriella arctica* Allgén, 1953

Notes: Inquirenda et incertae sedis. Jan Mayen (Allgén 1953).

Plectus cirratus* f. *parietinus* sf. *latilaimus* Allgén, 1953

Notes: Inquirenda et incertae sedis. Jan Mayen (Allgén 1953).

Prodomorganus tajmiris* Gagarin, 1993

Notes: Inquirenda et incertae sedis. Taymyr and Severnaya Zemlya, Russia (Gagarin 1990, Gagarin 1993, Gagarin 2001b).

***Teratocephalus micrurus* Rahm, 1924**

Notes: Inquirenda et incertae sedis. Taymyr and Severnaya Zemlya, Russia (Kuzmin 1972, Kuzmin and Gagarin 1990).

***Tylenchus macroscopiculatus* Gagarin, 1997**

Notes: Nomen nudum. Novaya Zemlia and Vaigach island, Russia (Gagarin 1997a).

Discussion

Despite of more than 130 years of research, our knowledge on the diversity and distribution of Arctic nematodes is still very incomplete and limited to only few relatively small areas of the region. The first studies of Arctic nematodes date back to 1883, when the first nematode was described from Spitzbergen (Aurivillius 1883). The taxonomic position of the species *Aphelenchus nivalis* Aurivillius, 1883 remains uncertain and its type material can not be located for re-study. After Aurivillius, the nematode fauna of Svalbard archipelago was studied by von Linstow (1900), Menzel (1920), Boström (1987a), Boström (1987b), Boström (1989), Zell (1993) and to a lesser extent by Brzeski (1962), Siddiqi (1979), Janiec (1997), Klekowski and Opalinski (1986), Klekowski and Opalinski (1990), Klekowski and Opalinski (1992), Opalinski and Klekowski (1992), Holovachov et al. (2003) adding up to the list of 101 species. Most of the sampling on Svalbard was concentrated around the west part of the Spitsbergen island and a large part of the archipelago remains unstudied. From other territories belonging to the Kingdom of Norway, 43 species of nematodes were found on the small island of Jan Mayen (Allgén 1953, Steiner 1916a), while no information is available for the northernmost part of the Finnmark.

Most of the nematological research in the Iceland was focused in southern and western part of the island (De Coninck 1940, De Coninck 1943, De Coninck 1944), which is considered as Subarctic in the current publication. Sampling sites from the northern part of the country were also outside the boundary considered in the present paper (Kreis 1963, Starmühlner 1969). A small part of the Arctic of the Iceland has not been studied to any considerable extent – only six species from the genus *Plectus* are listed from the areas near Húsavík and Tjörnes by Zell (1993). Terrestrial nematode fauna of Greenland, on the other hand, received considerable attention from Ditlevsen (1927), Allgén (1954), Zell (1993), Brzeski (1999), who altogether reported 43 species of nematodes collected in several distant localities along the eastern (Little Pendulum Island and Angmagssalik) and western (Disko island, Kangerlussuaq, Kapisillit, Sukkertoppen and Upernivik) sides of the island.

Nematode fauna of the Arctic regions of Canada is studied comparatively better. The research was focused in several localities in the Nunavut province including Bathurst, Ellef Ringnes, Ellesmere and Somerset islands (Anderson 1966, Anderson 1969, Anderson and Ebsary 1982, Anderson and Mulvey 1980, Das 1964, Ebsary 1984, Ebsary 1985, Elshishka et al. 2013, Mulvey 1963, Mulvey 1967b, Mulvey 1967a, Mulvey 1969c, Mulvey 1969a, Mulvey 1969b, Mulvey 1978, Sanwal 1965, Sanwal 1968, Wu 1965, Wu 1969b, Wu 1969a, Wu 1970, Zell 1993), and in the small area of the Mackenzie River delta and Tuktoyaktok in the Northwest territories (Ebsary 1982, Eveleigh 1982, Mulvey 1978, Mulvey and Anderson 1979). Respectively, 55 and 13 species were described from these regions between 1963 and 1993. Much less is known about the nematodes from the Arctic regions of Alaska – only 22 species were recorded there by Andrassy (2003a), Andrassy (2003b), Andrassy (2003c), Bernard (1992), Powers et al. (1983). Studied localities include Prudhoe Bay and neighbouring North Slope and Brooks Range, as well as localities along Kobuk River near Noorvik and Unalakleet River near Unalakleet.

Fauna of the Russian part of the Arctic lists the largest number of nematode species, including many typical freshwater nematodes, but known from only three distinct geographic regions: Novaya Zemlya archipelago together with Vaygach island, Taymyr peninsula together with Severnaya Zemlya, and the Lena River estuary. So far, only 37 species of freshwater nematodes are known from the Lena River estuary (Gagarin 1995, Gagarin 1999b, Gagarin 2000, Gagarin 2001b). The list of nematodes from the Novaya Zemlya archipelago and Vaygach island includes 81 nematode species, both terrestrial (Steiner 1916b) and freshwater (Gagarin 1997c, Gagarin 1997b, Gagarin 1997a, Gagarin 1999a, Gagarin 2000, Gagarin 2001c, Gagarin 2001b). Arctic areas of the Taymyr peninsula and Severnaya Zemlya are the most intensively studied part of the Arctic with localities including the Taymyr Lake, Enisei River, Putorana Plateau, Cape Chelyuskin – 229 species of freshwater and terrestrial nematodes were reported from different sampling sites of this region over the past 40 years (Elshishka et al. 2012, Elshishka et al. 2013, Gagarin 1990, Gagarin 1991a, Gagarin 1991b, Gagarin 1993, Gagarin 1996, Gagarin 1999a, Gagarin 2001b, Gagarin 2001a, Gagarin 2008, Gagarin 2009, Gagarin and Kuzmin 1972, Gagarin and Kuzmin 1983, Kuzmin 1972, Kuzmin 1976, Kuzmin 1986, Kuzmin and Gagarin 1990).

In summary, 391 species, belonging to 146 genera, 54 families, and 10 orders of the phylum Nematoda are known from the entire Arctic (including species of dubious taxonomic status, but excluding single nomen nudum). Even taking into consideration relatively low variety of habitats in this region, comparing to other areas of the world, as well as the rather harsh environmental conditions, this list is considered to be very incomplete and preliminary.

Acknowledgements

This project was in part supported by two grants from the Swedish Taxonomy Initiative: "Taxonomy and distribution of free-living nematodes of the order Plectida in Sweden" and

"Systematics of Swedish free-living nematodes of the orders Desmodorida and Araeolaimida".

References

- Ahmad W, Jairajpuri MS (2010) Mononchida: the predatory soil nematodes. Brill, 298 pp. DOI: [10.1163/ej.9789004174641.i-298](https://doi.org/10.1163/ej.9789004174641.i-298)
- Allgén C (1953) Terrestrial nematodes from Jan Mayen. Annals and Magazine of Natural History 6: 665-689.
- Allgén C (1954) On some arctic free-living moss-nematodes. Meddelelser om Grønland 107: 1-10.
- Anderson RV (1966) An emendation of the diagnosis of both the subfamily and two genera of Wilsonematiniae and a new genus, *Ereptonema* n. g. (Plectidae: Nematoda). Canadian Journal of Zoology 44: 923-935. DOI: [10.1139/z66-094](https://doi.org/10.1139/z66-094)
- Anderson RV (1969) Comparative morphology and descriptions of three new species of *Teratocephalus* from Canada. Canadian Journal of Zoology 47: 829-840. DOI: [10.1139/z69-141](https://doi.org/10.1139/z69-141)
- Anderson RV, Ebsary BA (1982) Canadian species of *Merlinius* Siddiqi, 1970 and a diagnosis and description for *Mulveyotus hyalacus* n. gen., n. sp. (Nematoda: Tylenchorhynchidae). Canadian Journal of Zoology 60: 521-529. DOI: [10.1139/z82-078](https://doi.org/10.1139/z82-078)
- Anderson RV, Mulvey RH (1980) Description, relationships, and host symptoms of *Ditylenchus dryadis* n. sp. (Nematoda: Tylenchidae) from the Canadian High Arctic, a transitional species of gall-forming parasite attacking *Dryas integrifolia* M. Vahl. Canadian Journal of Zoology 58: 363-368. DOI: [10.1139/z80-046](https://doi.org/10.1139/z80-046)
- Andrásy I (2002) The genus *Cristamphidelus* Siddiqi & Vinciguerra, 1991 and a general survey of the family Alaimidae (Nematoda). Journal of Nematode Morphology and Systematics 4: 51-82.
- Andrásy I (2003a) New and rare nematodes from Alaska. II. Four species of the order Mononchida. Journal of Nematode Morphology and Systematics 5: 61-72.
- Andrásy I (2003b) New and rare nematodes from Alaska. I. Three species of the family Plectidae. Journal of Nematode Morphology and Systematics 5: 33-48.
- Andrásy I (2003c) New and rare nematodes from Alaska. III. Five species of the order Dorylaimida. Journal of Nematode Morphology and Systematics 5: 163-182.
- Andrásy I (2009) Free-living nematodes of Hungary (Nematoda errantia), III. Hungarian Natural History Museum, 608 pp.
- Aurivillius CW (1883) Eine Anguillulidae aus der Schneeflora Spitzbergens. Bihang till Kungliga svenska Vetenskaps-Akademiens Handlingar 8 (11): 1-15.
- Bernard EC (1992) Terrestrial nematodes of Alaska. 1. Trichodoridae. Journal of Nematology 24: 67-77.
- Boström S (1987a) A scanning electron microscope study of some species of terrestrial nematodes from Spitzbergen. Nematologica 33: 366-374. DOI: [10.1163/187529287X00029](https://doi.org/10.1163/187529287X00029)
- Boström S (1987b) A new terrestrial nematode species (Rhabditida: Cephalobidae) from Spitzbergen. Polar Biology 7: 375-378. DOI: [10.1007/BF00293227](https://doi.org/10.1007/BF00293227)
- Boström S (1989) The taxonomic position of some teratocephalid nematodes – a scanning electron microscope study. Revue de Nématologie 12: 181-190.

- Brzeski MW (1962) *Eudorylaimus allenii* n. sp. (Nematoda, Dorylaimidae). Opuscula Zoologica Budapestinensis 4: 2-4.
- Brzeski MW (1999) Some Tylenchida (Nematoda) from Greenland. Journal of Nematode Morphology and Systematics 2: 89-106.
- CAVM Team (2003) Circumpolar Arctic Vegetation Map. Scale 1:7,500,000. Conservation of Arctic Flora and Fauna (CAFF) Map No. 1. U.S. Fish and Wildlife Service, 1 pp.
- Coulson S, Refseth S (2004) The terrestrial and freshwater invertebrate fauna of Svalbard (and Jan Mayen). In: Prestrud P, Strøm H, Goldman HV (Eds) A catalogue of the terrestrial and marine animals of Svalbard. Norwegian Polar Institute
- Das VM (1964) *Hexatylus mulveyi* n. sp. and *Deladenus durus* (Cobb, 1922) Thorne, 1941 (Nematoda: Neotylenchidae) from the Canadian Arctic. Canadian Journal of Zoology 42: 649-653. DOI: [10.1139/z64-056](https://doi.org/10.1139/z64-056)
- De Coninck L (1940) Wetenschappelijke resultaten der studiereis van Prof. Dr. van Oye op Ijsland. VIII. Les nématodes libres des sources chaudes. Biologisch Jaarboek Dodonaea 7: 138-160.
- De Coninck L (1943) Wetenschappelijke resultaten der studiereis van Prof. Dr. van Oye op Ijsland. XIV. Sur quelques espèces nouvelles de nématodes libres des eaux et des terres saumâtres de l'Islande. Biologisch Jaarboek Dodonaea 10: 193-220.
- De Coninck L (1944) Wetenschappelijke resultaten der studiereis van Prof. Dr. van Oye op Ijsland. XVI. Les nématodes libres des eaux et des terres saumâtres. Biologisch Jaarboek Dodonaea 11: 165-220.
- De Ley P, Blaxter M (2004) A new system for Nematoda: combining morphological characters with molecular trees, and translating clades into ranks and taxa. Nematology Monographs & Perspectives 2: 633-653.
- Ditlevsen H (1927) Free-living Nematodes from Greenland, land and freshwater. Meddelelser om Grønland 23: 159-198.
- Ebsary BA (1982) Canadian species of *Tobrilus* (Nematoda: Tobriliidae) with description of three new species. Canadian Journal of Zoology 60: 3048-3062. DOI: [10.1139/z82-387](https://doi.org/10.1139/z82-387)
- Ebsary BA (1984) *Rhysocolpus arcticus* n. sp. (Nematoda: Nordiidae) from Ellesmere Island and a redescription of *Lindseyus costatus* Ferris and Ferris, 1973 (Nematoda: Roqueidae) from Quebec, Canada. Journal of Nematology 16: 235-239.
- Ebsary BA (1985) Two new species of *Plectus* with a redescription of *Plectus cancellatus* Zullini, 1978 (Nematoda: Plectidae) from Canada. Canadian Journal of Zoology 63: 2395-2400. DOI: [10.1139/z85-354](https://doi.org/10.1139/z85-354)
- Elshishka M, Lazarova S, Peneva VK (2012) Studies of the genus *Enchodelus* Thorne, 1939 (Nematoda, Nordiidae) from Arctic polar deserts. I. Species with long odontostyle: *E. makarovae* sp. n. and *E. groenlandicus* (Ditlevsen, 1927) Thorne, 1939, with an identification key to the species of the *E. macrodorus* group. ZooKeys 212: 1-23. DOI: [10.3897/zookeys.212.3464](https://doi.org/10.3897/zookeys.212.3464)
- Elshishka M, Lazarova S, Peneva VK (2013) *Heterodorus magnificus* Altherr, 1952 and *H. arquatus* (Thorne, 1939) (Nematoda: Dorylaimida) from Arctic polar deserts: new geographic records. Acta Zoologica Bulgarica 65: 447-456.
- Eveleigh ES (1982) Two new species of *Paractinolaimus* Meyl, 1957 (Nematoda: Paractinolaimidae) from the Mackenzie and Porcupine river systems, Northwest Territories, Canada. Canadian Journal of Zoology 60: 158-164. DOI: [10.1139/z82-020](https://doi.org/10.1139/z82-020)

- Fonseca G, Decraemer W (2008) State of the art of the free-living marine Monhysteridae (Nematoda). Journal of the Marine Biological Association of the United Kingdom 88: 1371-1390. DOI: [10.1017/S0025315408001719](https://doi.org/10.1017/S0025315408001719)
- Gagarin VG (1990) Fauna of the free-living nematodes of the water bodies of the Taymyr peninsula with notes on nematode species communities in fresh waters. In: Gagarin VG (Ed.) Fauna, biologia i sistematika svobodnozhyvushchikh nizshykh chervei. [In Russian].
- Gagarin VG (1991a) Nematodes of the family Tobrilidae (Enoplida) from the Arctic water bodies. Zoologicheskii Zhurnal 70 (9): 11-21. [In Russian].
- Gagarin VG (1991b) Seven new species of freshwater nematodes. Zoologicheskii Zhurnal 70 (8): 20-27. [In Russian].
- Gagarin VG (1993) Free-living nematodes from the fresh-water habitats in Russia and neighboring countries. Gidrometeoizdat, 352 pp. [In Russian].
- Gagarin VG (1995) Morphology and taxonomy of the genus *Fictor* (Nematoda, Diplogasterida). Zoologicheskii Zhurnal 74 (3): 12-23. [In Russian].
- Gagarin VG (1996) Free-living nematodes from some water bodies of Taimyr peninsula. Zoologicheskii Zhurnal 75 (3): 323-334. [In Russian].
- Gagarin VG (1997a) Fauna of the freeliving nematodes from the water bodies of the Novaya Zemlya archipelago. Biologia Vnuttrennikh Vod 3: 33-40. [In Russian].
- Gagarin VG (1997b) New species of freshwater nematodes of the order Monhysterida from the Novaya Zemlya archipelago (Nematoda). Zoosystematica Rossica 6: 21-30.
- Gagarin VG (1997c) *Aphelenchoides robustus* sp. n., a new freshwater nematode from archipelago Novaya Zemlya (Nematoda: Aphelenchoididae). Zoosystematica Rossica 5: 209-211.
- Gagarin VG (1999a) Some data about free-living nematodes from the water bodies of the Novaya Zemlya archipelago and Vaygach island. Biologia Vnuttrennikh Vod 1-3: 32-41. [In Russian].
- Gagarin VG (1999b) *Peritobrilus vipriensis* sp. n. (Enoplida: Tobrilidae) and *Allodorylaimus rarus* sp. n. (Dorylaimida: Qudsianematidae) from Northern Siberia. Russian Journal of Nematology 7: 115-119.
- Gagarin VG (2000) New species of nematodes from waterbodies of Russian Arctica. Biologia Vnuttrennikh Vod 3: 9-15. [In Russian].
- Gagarin VG (2001a) Svobodnozhyvushchie nematody presnykh vod Rossii i sopredelnykh stran. Fauna i puti ee formirovaniya, ekologiya, taksonomija, filogenija. [Free-living nematodes from the fresh-water habitats in Russia and neighboring countries. Fauna and its formation, ecology, taxonomy, phylogeny]. Nauka, 170 pp. [In Russian].
- Gagarin VG (2001b) Review of free-living nematode fauna from fresh waters of the Russian Arctic and Subarctic. Biologia Vnuttrennikh Vod 2: 32-37. [In Russian].
- Gagarin VG (2001c) New species of free-living freshwater nematodes from Eurasia. Zoosystematica Rossica 9: 11-17.
- Gagarin VG (2008) Nematody otriada Diplogasterida fauny Rossii. [Nematodes of the order Diplogasterida in the Russian Fauna]. Nauka, 183 pp. [In Russian].
- Gagarin VG (2009) The revision of the genus *Eutobrilus* Tsalolikhin, 1981 (Nematoda, Triplonchida). Biologia Vnuttrennikh Vod 3: 17-24. [In Russian].
- Gagarin VG, Kuzmin LL (1972) New data on taxonomy of the genus *Prismatolaimus* (Nematoda, Onchulidae). Zoologicheskii Zhurnal 51: 1879-1881. [In Russian].

- Gagarin VG, Kuzmin LL (1983) Nematodes from the freshwater habitats in the shrub and arctic tundra subzones of Taymyr. *Biologicheskie problemy severa*.
- Geraert E (2008) The Tylenchidae of the World – identification of the family Tylenchidae (Nematoda). Academia Press, 540 pp.
- Geraert E (2011) The Dolichodoridae of the World – identification of the family Dolichodoridae (Nematoda: Tylenchida). Academia Press, 520 pp.
- Holovachov O (2014) 7.16 Order Plectida Gadea, 1973. In: Schmidt-Rhaesa A (Ed.) *Handbook of Zoology. Gastrotricha, Cycloneuralia, Gnathifera. Volume 2: Nematoda*. de Gruyter
- Holovachov O, Esquivel A (2012) Other soil nematodes. In: Manzanilla-López RH, Marbán-Mendoza N (Eds) *Practical Plant Nematology*. Mundi Prensa-CP
- Holovachov O, Shoshin A (2014) 7.4 Order Triplonchida Cobb, 1919. In: Schmidt-Rhaesa A (Ed.) *Handbook of Zoology. Gastrotricha, Cycloneuralia, Gnathifera. Volume 2: Nematoda*. de Gruyter
- Holovachov O, Tandingan De Ley I, Mundo-Ocampo M, De Ley P (2009) Identification of Cephaloboidea (Nematoda). EUMAINE, Gent and Nematology, UC Riverside, 86 pp.
- Holovachov O, Boström S, Tandingan De Ley I, De Ley P, Coomans A (2003) Morphology and systematics of the genera *Wilsonema* Cobb, 1913, *Ereptonema* Anderson, 1966 and *Neotylocephalus* Ali, Farooqui & Tejpali, 1969 (Leptolaimina: Wilsonematinae). *Journal of Nematode Morphology and Systematics* 5: 73-106.
- Janiec K (1997) The comparison of freshwater invertebrates of Spitsbergen (Arctic) and King George Island (Antarctic). *Polish Polar Research* 17: 173-202.
- Klekowski RZ, Opalinski KW (1986) Matter and energy flow in Spitsbergen ornogenic tundra. *Polar Research* 4: 187-197. DOI: [10.1111/j.1751-8369.1986.tb00530.x](https://doi.org/10.1111/j.1751-8369.1986.tb00530.x)
- Klekowski RZ, Opalinski KW (1990) Die Erkundung der Mechanismen von Umwandlungsprozessen von Energie und Materie im Ökologischen System der Tundra Spitsbergens. *Milu* 7: 49-67.
- Klekowski RZ, Opalinski KW (1992) Polish biological investigations in Spitsbergen. In: Klekowski RZ, Opalinski KW (Eds) *Landscape, life world and man in High Arctic*. Institute of Ecology, Polish Academy of Sciences
- Kreis HA (1963) Marine Nematoda. *The Zoology of Iceland* 14.
- Kuzmin LL (1972) A contribution to the fauna and ecology on free-living nematodes of the west Taimyr. *Zoologicheskii Zhurnal* 51: 1399-1402. [In Russian].
- Kuzmin LL (1976) Free-living nematodes in the tundra of western Taimyr. *Oikos* 27: 501-505. DOI: [10.2307/3543469](https://doi.org/10.2307/3543469)
- Kuzmin LL (1986) Free-living nematodes from the southern tundra subzone of the western Taymyr. *Uznyie tundry Taimyra*. [In Russian].
- Kuzmin LL, Gagarin VG (1990) *Katalog svobodnozhyvushchikh pochvennykh i presnovodnykh nematod Arktiki i Subarktiki*. [Catalogue of free-living soil and freshwater nematodes of Arctic and Subarctic]. Vladimir State Pedagogical Institute, 65 pp. [In Russian].
- Loof PAA (1971) Freeliving and plant parasitic nematodes from Spitzbergen collected by Mr. H. von Rossen. *Mededelingen Landbouwhogeschool Wageningen* 71: 1-86.
- Meltofte H, Huntington HP, Barry T (2013) Introduction. In: Meltofte H (Ed.) *Arctic Biodiversity Assessment. Status and trends in Arctic biodiversity. Conservation of Arctic Flora and Fauna*. Akureyri

- Menzel R (1920) Ueber freilebende Nematoden aus der Arktis. Festschrift zur Feier des 60. Geburtstages von Friedrich Zschokke 17: 1-15.
- Mulvey RH (1963) Some soil-inhabiting, freshwater, and plant-parasitic nematodes from the Canadian Arctic and Alaska. Arctic 16: 202-204. DOI: [10.14430/arctic3539](https://doi.org/10.14430/arctic3539)
- Mulvey RH (1967a) The Mononchidae: a family of predaceous nematodes. VII. Genus *Prionchulus* (Nematoda: Mononchidae). Canadian Journal of Zoology 45: 941-953. DOI: [10.1139/z67-104](https://doi.org/10.1139/z67-104)
- Mulvey RH (1967b) The Mononchidae: a family of predaceous nematodes. VI. Genus *Mononchus* (Nematoda: Mononchidae). Canadian Journal of Zoology 45: 915-940. DOI: [10.1139/z67-103](https://doi.org/10.1139/z67-103)
- Mulvey RH (1969a) Nematodes of the genus *Tylenchorhynchus* (Tylenchoidea: Nematoda) from the Canadian high Arctic. Canadian Journal of Zoology 47: 1245-1248. DOI: [10.1139/z69-194](https://doi.org/10.1139/z69-194)
- Mulvey RH (1969b) Nematodes of the family Neotylenchidae (Tylenchida: Nematoda) from the Canadian high Arctic. Canadian Journal of Zoology 47: 1261-1268. DOI: [10.1139/z69-198](https://doi.org/10.1139/z69-198)
- Mulvey RH (1969c) Soil-inhabiting nematodes of the orders Araeolaimida, Chromadorida, Enopliida, and Monhysterida from the Canadian high Arctic. Canadian Journal of Zoology 47: 365-382. DOI: [10.1139/z69-070](https://doi.org/10.1139/z69-070)
- Mulvey RH (1978) Predaceous nematodes of the family Mononchidae from the Mackenzie and Porcupine river systems and Somerset Island, N.W.T., Canada. Canadian Journal of Zoology 56: 1847-1868. DOI: [10.1139/z78-252](https://doi.org/10.1139/z78-252)
- Mulvey RH, Anderson RV (1979) Benthic species of *Dorylaimus* Dujardin 1845 (Nematoda: Dorylaimidae) and *Arctidorylaimus* n. gen. (Arctidorylaimidae n. fam.) from the Mackenzie and Porcupine river systems, Northwest Territories, Canada. Canadian Journal of Zoology 57: 743-755. DOI: [10.1139/z79-092](https://doi.org/10.1139/z79-092)
- Opalinski KW, Klekowski RZ (1992) Metabolic adaptations to temperature in Spitsbergen invertebrates. In: Opalinski KE, Klekowski RZ (Eds) Landscape, life world and man in High Arctic. Institute of Ecology, Polish Academy of Science
- Powers TO, Baldwin JG, Bell AH (1983) Taxonomic limits of the genus *Nagellus* (Thorne and Malek, 1968) Siddiqi, 1979 with a description of *Nagellus borealis* n. sp. from Alaska. Journal of Nematology 15: 582-593.
- Sanwal KC (1965) Two new species of the genus *Aphelenchoides* Fischer, 1894 (Nematoda: Aphelenchoididae) from the Canadian Arctic. Canadian Journal of Zoology 43: 933-940. DOI: [10.1139/z65-097](https://doi.org/10.1139/z65-097)
- Sanwal KC (1968) Morphology and relationships of *Periplectus labiosus* n. gen., n. sp. (Nematoda: Plectinae) with remarks on its evolutionary significance. Canadian Journal of Zoology 46: 991-1003. DOI: [10.1139/z68-139](https://doi.org/10.1139/z68-139)
- Siddiqi MR (1979) Taxonomy of the plant nematode subfamily Merliniinae Siddiqi, 1970, with descriptions of *Merlinius processus* n. sp., *M. loofi* n. sp. and *Amplimerlinius globigerus* n. sp. from Europe. Systematic Parasitology 1: 43-60. DOI: [10.1007/BF00009773](https://doi.org/10.1007/BF00009773)
- Smol N, Muthumbi A, Sharma J (2014) 7.3 Order Enopliida. In: Schmidt-Rhaesa A (Ed.) Handbook of Zoology. Gastrotricha, Cycloneuralia, Gnathifera. Volume 2: Nematoda. de Gruyter

- Starmühlner F (1969) Beiträge zur Kenntnis der Biozönosen isländischer Thermalgewässer. Sitzungsberichte der Österreichischen Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse 178: 83-173.
- Steiner G (1916a) Freilebende Nematoden von Nowaja-Semlja. Zoologischer Anzeiger 46: 50-74.
- Steiner G (1916b) Beiträge zur geographischen Verbreitung freilebender Nematoden. Zoologischer Anzeiger 46: 311-349.
- Sudhaus W (2011) Phylogenetic systematisation and catalogue of paraphyletic "Rhabditidae" (Secernentea, Nematoda). Journal of Nematode Morphology and Systematics 14: 113-178.
- Sudhaus W, Fürst von Lieven A (2003) A phylogenetic classification and catalogue of the Diplogastridae (Secernentea, Nematoda). Journal of Nematode Morphology and Systematics 6: 43-90.
- Tchesunov AV, Pletnikova MV (1986) New data on commensal nematodes of the genus *Gammarinema* Kinne et Gerlach, 1953 (Chromadoria: Monhysterida). Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody Otdel Biologicheskii 91: 73-83.
- von Linstow O (1900) Arktische und subarktische Nematodenfauna. Fauna arctica.
- Wu LY (1965) Five new species of *Criconemoides* Taylor, 1936 (Criconematidae: Nematoda) from Canada. Canadian Journal of Zoology 43: 203-214. DOI: [10.1139/z65-018](https://doi.org/10.1139/z65-018)
- Wu LY (1969a) Dactylotylenchinae, a new subfamily (Tylenchidae: Nematoda). Canadian Journal of Zoology 47: 909-911. DOI: [10.1139/z69-147](https://doi.org/10.1139/z69-147)
- Wu LY (1969b) Five new species of *Tylenchus* Bastian, 1865 (Nematoda: Tylenchida) from the Canadian high Arctic. Canadian Journal of Zoology 47: 1005-1010. DOI: [10.1139/z69-162](https://doi.org/10.1139/z69-162)
- Wu LY (1970) Genus *Ottolenchus* n. rank and *Ottolenchus sulcus* n. sp. (Tylenchidae: Nematoda). Canadian Journal of Zoology 48: 249-251. DOI: [10.1139/z70-041](https://doi.org/10.1139/z70-041)
- Zell H (1993) Die Gattung *Plectus* Bastian, 1865 sensu lato (Nematoda, Plectidae) – ein Beitrag zu Ökologie, Biogeographie, Phylogenie und Taxonomie der Plectidae. Andrias 11: 3-90.